

Teaching guide

IDENTIFICATION DETAILS

Degree:	Architecture		
Field of Knowledge:	Engineering and Architecture		
Faculty/School:	Higher Polytechnic School		
Course:	BASIC MATHEMATICS		
Type:	Basic Training	ECTS credits:	6
Year:	1	Code:	3714
Teaching period:	First semester		
Area:	Mathematics		
Module:	Introductory course		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

SUBJECT DESCRIPTION

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SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

Ability to resolve problems and to take decisions.

Ability to apply procedures.

Aptitude to create architectural projects that meet both aesthetic and technical requirements.

Specific skills

Applied knowledge of numerical calculus, analytical and differential geometry and algebraic methods.

An adequate knowledge of the techniques involved in all phases of graphic surveying, from the drawing of initial sketches to scientific restoration, applied to architecture and urban planning.

An adequate knowledge of the principles of general mechanics, statics, geometry of masses and vector and tensor fields applied to architecture and urban planning.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
60 hours	90 hours